

Notice of Allowability	Application No.	Applicant(s)	
	10/721,660	NATESAN ET AL.	
	Examiner	Art Unit	
	SHEW-FEN LIN	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/21/10.
2. ☒ The allowed claim(s) is/are 47-48, 51-52, and 54-65.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>7/12/2010</u> . 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|---|

/SHEW-FEN LIN/
Examiner, Art Unit 2166

DETAILED ACTION

- a. This action is taken in response to remarks and amendments filed on 4/21/2010.
- b. Claims 47-48, 51-52, and 54-65 (renumbered as 1-16) are allowed.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone conversation with Applicant's attorney Jon D. Shutter (Reg. No. 41,311) on July 12, 2010.

Please enter the amendment filed on 4/21/2010 and further amend as follows:

Claim 47 (currently amended): A method of operation for a navigation system comprising:

on a server, using a repository for geographic data, wherein the repository contains a plurality of pre-computed parcels of geographic data, wherein the geographic data in each of the parcels represent geographic features contained in a separate one of a plurality of geographic sub-areas into which a geographic region is divided, wherein the each of the parcels contains a plurality of data records that represent the road segments records, node records, name records and points of interest records located within the geographic sub-area corresponding to the parcel;
on the server, receiving a request for a route from an origin to a destination;

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on the server, calculating a route from said origin to said destination;

on the server, after said step of calculating the route, using the calculated route to identify the geographic sub-areas that are crossed by the calculated route;

on the server, identifying the parcels that contain all the data records that represent the geographic features encompassed in the geographic sub-areas that the route passes through;

transmitting data that represents the calculated route to an end user computing platform;

transmitting all of the data records contained in the parcels that represent the geographic features encompassed in the geographic sub-areas the route passes through to the end user computing platform, wherein the data contained in the parcels includes data that is searchable for identifying points of interest located in the geographic sub-areas the route passes through;

on the end user computing platform, storing the transmitted parcels in a memory associated with the end user computing platform;

on the end user computing platform, after said step of storing the transmitted parcels in the memory, receiving a request for a point of interest based upon specified criteria that is located proximate the route;

and on the end user computing platform, using data from the transmitted parcels that represent the geographic features encompassed in the geographic sub-areas that the route passes through to find said point of interest based upon said specified criteria that is located proximate the route without making a request to the server.

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Claim 56 (currently amended): A navigation system comprising:

a server;

a repository for geographic data associated with the server, wherein the repository contains pre-computed parcels of geographic data, wherein each of the pre-computed parcels of geographic data corresponds to a separate one of a plurality of geographic sub-areas into which a geographic region is divided, wherein the each of the parcels contains a plurality of data records that represent the road segments records, node records, name records and points of interest records located within the geographic sub-area corresponding to the parcel;

a route calculation application performed on the server that calculates a route from an origin to a destination; and

a geographic data providing application performed on the server that uses the calculated route to identify the geographic sub-areas that are crossed by the calculated route and transmits to a client computing platform from the server data that represents the calculated route and from said repository all of the data records contained in the parcels that represent the geographic features encompassed in the geographic sub-areas the route passes through, wherein the data contained in the parcels includes data that is searchable for identifying points of interest located in the geographic sub-areas the route passes through, wherein the transmitted data is stored in a local memory associated with the client computing platform;

a point of interest look up application on the end user computing platform that receives a request for a point of interest and uses the transmitted data stored in the local memory that represent the geographic features encompassed in the geographic sub-areas that the route passes

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through to identify the requested point of interest that is located proximate the route without making a request to the server.

Claim 64 (currently amended): A method of operation for a navigation system comprising:

on a server, using a repository for geographic data, wherein the repository contains a plurality of parcels of geographic data, wherein each of said parcels contain routing data corresponding to a separate one of a plurality of geographic sub-areas into which a geographic region is divided, wherein the each of the parcels contains a plurality of data records that represent the road segments records, node records, name records and points of interest records located within the geographic sub-area corresponding to the parcel;

on the server, receiving a request for a route to a destination from a mobile computing platform;

on the server, calculating said route;

on the server, after said step of calculating the route, identifying the geographic sub-areas that the calculated route passes through; and

wirelessly transmitting data representing said route from the server to said mobile computing platform;

wirelessly transmitting to said mobile computing platform from said repository all of the data records contained in the parcels that represent the geographic features encompassed in the geographic sub-areas located along said route, wherein the data contained in the parcels includes

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data that is searchable for identifying points of interest located in the geographic sub-areas along the route;

on the mobile computing platform, storing the transmitted parcels in a local memory associated with the mobile computing platform;

on the mobile computing platform, after said step of storing the transmitted parcels in the local memory, receiving a request for a point of interest and accessing data from the local memory to find said point of interest that is located along the route without making a request to the server.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEW-FEN LIN whose telephone number is (571)272-2672.

The examiner can normally be reached on 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SHEW-FEN LIN/
Examiner, Art Unit 2166
July 15, 2010